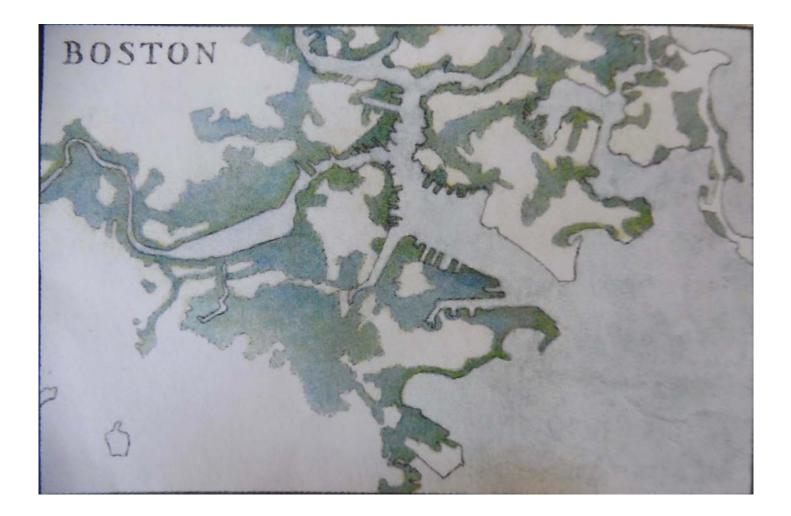
Air-sealing a Flat Roof "Attic"

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Why air-seal?



GRASP this:

- Building Science performed in 1992
- 40 buildings air-sealed and cellulosed vs.
 40 buildings only cellulosed but no sealing
- No moisture issues even 25 years latereven on the un-air-sealed buildings

Get on your spelunking gear



Are you in shape?

- 10 sit-ups a day
- 1 push –up
- Get on the floor and start dragging your self around by the arms for practice.

CAT WALKS?



Respirator, goggles, hat, gloves, HOP



You need this



And this



To Find the Leaks

Either this...



...or this



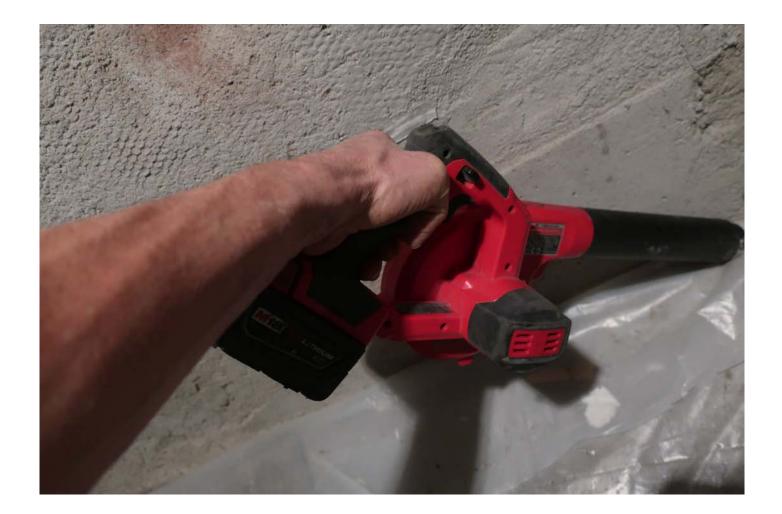
To Fix the leaks





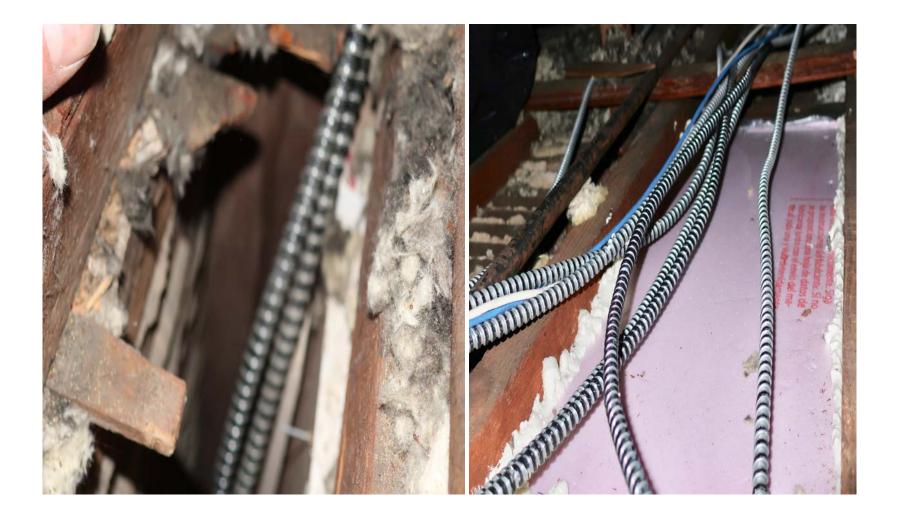








Assist Wall





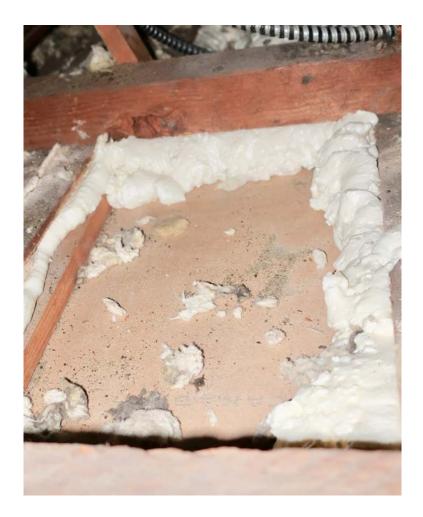


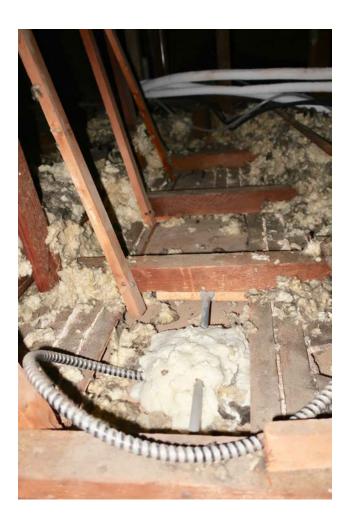




















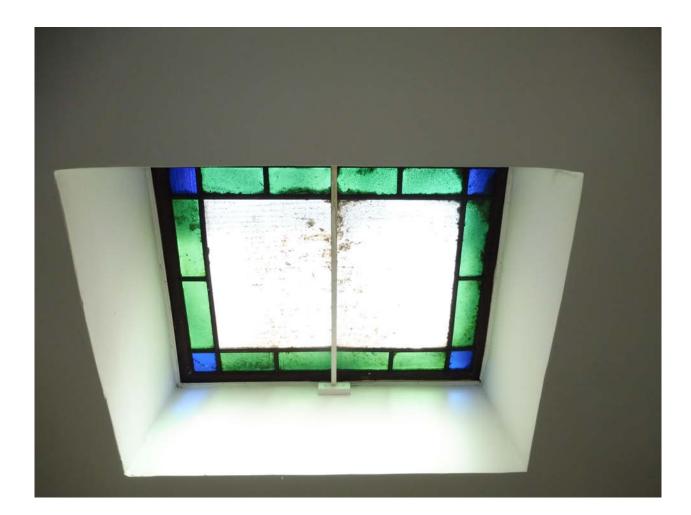










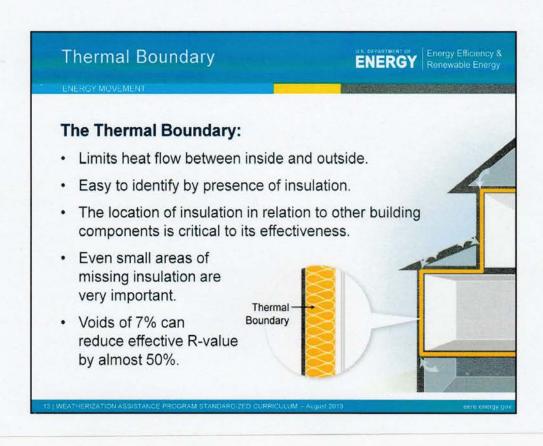




Chimney







The thermal boundary

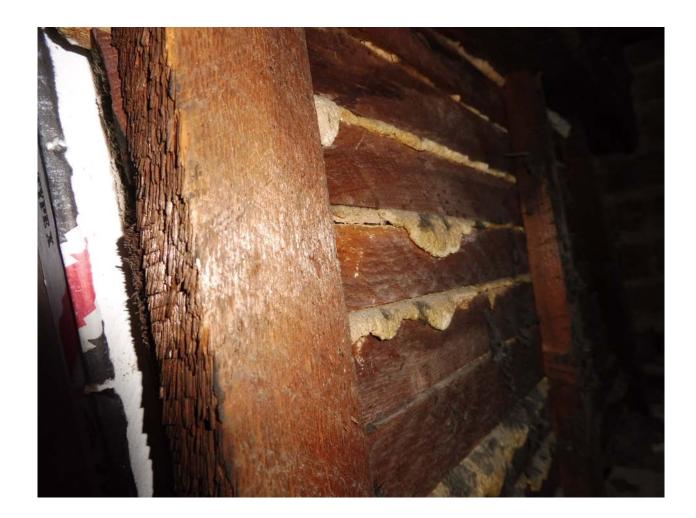
- Is easy to identify by the presence of invulation."
- The location of insulation provide the science building environment is critical to its effectiveness. When an prosect Description letters, it carries heat and moleture away...
- · Even shall areas of others, while a cool to meedied
- Volde totaling 7% can make the effective R-make by threat 50%. The effective R-ythm in the attle of a 1.000-equine formalisate many parabler localities in R-38 fulls to an effective R-value of 19 when 70 prome fort of involution is putted aside
- The thermal boundary is the intuistion: Common publication include (Decalary both,













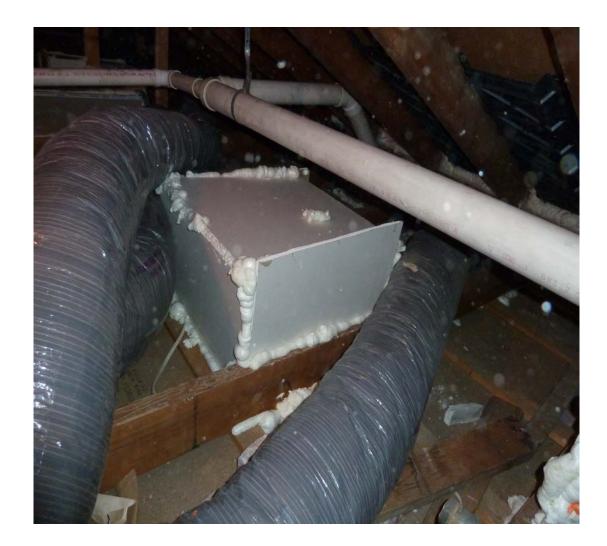




Bath Fan & Recessed light







Cellulose

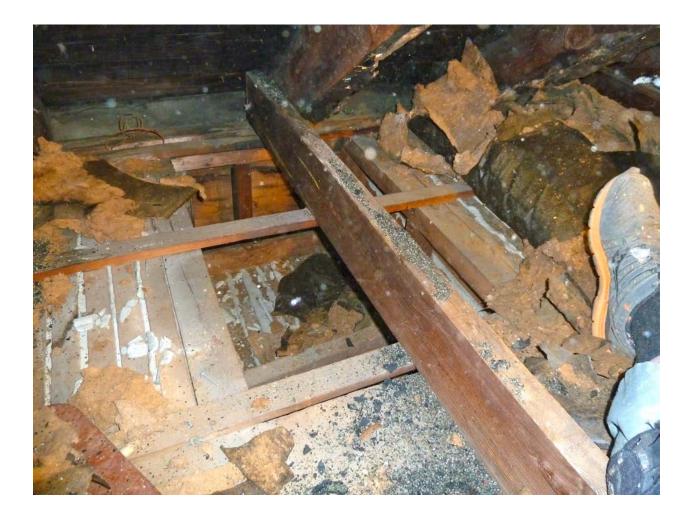
- Dense-packing where access is too tight
- GRASP Project Energy Savings
- GRASP Project lack of moisture issues 25
 years later!!!!!

10 from Jason's Air-Sealing Check List

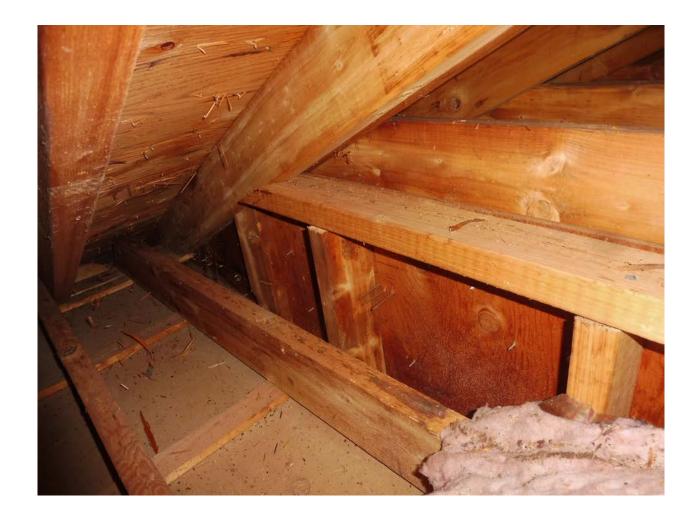
- 1. Chimneys
- 2. Recessed Lights
- 3. Bathroom Fans
- 4. Stink Pipes
- 5. Wet Walls/ All Wall Tops (Top Plates)
- 6. Duct Work
- 7. Attic Entrances
- 8. Gable Ends
- 9. Surprises
- 10. Junction Boxes

Vertical Thermal Boundaries

Dropped Soffits



Ceiling Height Changes



Knee-walled Spaces



